

*Papers read before the Society from February 1887
to February 1888.*

1887.
Mar. 11. A proposed nomenclature for star colours. W. S. Franks.
Observations of the variable star S (10) *Sagittæ*. J. E. Gore.
Observations of Comets made at the Royal Observatory, Cape of Good Hope, in the year 1886. Communicated by D. Gill.
Photographic search for the minor planet *Sappho* 80. I. Roberts.
A working catalogue of "red" stars. G. F. Chambers.
Notes on reflecting telescopes. Lieut.-Gen. J. F. Tennant.
The occultation of *Aldebaran*, 1887, March 2. C. L. Prince.
Elements of Comet 1886 *e* (Finlay). W. H. Finlay.
Comet 1887 *a*. W. H. Finlay.
On the images formed by reflecting mirrors and their aberration. Lord McLaren.
Second occultation of *Aldebaran*, 1887. Rev. S. J. Johnson.
Note on the near approach of the Moon to α *Tauri*. T. G. E. Elger.
Observations of Winnecke's Comet, 1886, made at Windsor, New South Wales. J. Tebbutt.
The Moon and *Aldebaran*, 1887, March 2, as seen at the Radcliffe Observatory, Oxford. E. J. Stone.
Description of a new measuring rod. E. Crossley.
A centring tube for reflecting telescopes. E. Crossley.
Observations of Comets, *e* 1886 (Finlay), *b* 1887 (Brooks), *c* 1887 (Barnard), and *d* 1887 (Barnard), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.
On the atmospheric transmission of visual and photographically actinic light. Capt. W. de W. Abney.

Observations of Comet 1887 *a*, made at the Adelaide Observatory (extract from letters to the Astronomer Royal). C. Todd.

April 6. On the choice of instruments for stellar photography. H. Grubb.

On the orbit of O Σ 400. J. E. Gore.

Lunar occultations on March 29, 1887. C. L. Prince.

On the formulæ for computing the apparent positions of a satellite, and for correcting the assumed elements of its orbit. A. Marth.

Remarks on some of the present aspects of celestial photography. Prof. C. Pritchard.

Observations of Comet *b* 1887 (Brooks), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

On the variations of level and azimuth of the Transit Circle of the Royal Observatory, Greenwich. H. H. Turner.

May 13. Occultation of *a Tauri*, 1887, March 2. Lieut.-Col. G. L. Tupman.

The sidereal system, revised in 1887. Maxwell Hall.

Observations of *Saturn* and δ *Geminorum*, January—February, 1887. J. Tebbutt.

On the probable errors of transit observing. W. H. Finlay.

Sextant observations of Comet *a*, 1887. Capt. E. J. Molony.

The orbits of Comets Fabry and Barnard-Hartwig. Dr. J. Morrison.

Ephemerides of the satellites of *Mars* during the oppositions of 1888 and 1890. Dr. J. Morrison.

On the inclinations of cometary orbits. W. H. S. Monck.

Notes on a MS. eclipse volume. Rev. S. J. Johnson.

Memoir on *Jupiter*. N. E. Green.

On some nebulae hitherto suspected of variability or proper motion. J. L. E. Dreyer.

Note on the effect of refraction in stellar photography. J. L. E. Dreyer.

On Prof. G. W. Hill's paper on Delaunay's method. E. Neison.

On the orbit of Comet II., 1883. R. Bryant.

On the formulæ for correcting approximate elements of the orbits of binary stars. A. Marth.

The right ascensions of certain stars within ten degrees of the pole, reduced from observations by F. G. W. Struve. H. Lefavour. Communicated by Prof. Safford.

June 10. Observations of the companion of *Sirius* made at the Dearborn Observatory, Chicago. Prof. G. W. Hough.

A catalogue of 480 stars to be used as fundamental stars for observations of zones between 20° and 80° south declination. Prof. A. Auwers.

On the orbit of Σ 1757. J. E. Gore.

Physical observations of *Saturn* in 1887. T. G. E. Elger.
Measures of southern double stars made at the Observatory, Sydney, New South Wales. Communicated by H. C. Russell.

A new general catalogue of nebulae and clusters of stars, being the catalogue of the late Sir J. F. W. Herschel, revised, corrected, and enlarged. J. L. E. Dreyer.

On the parallax of 61_1 and 61_2 *Cygni*, as obtained by the aid of photography. Prof. C. Pritchard.

The Solar Corona, as shown in photographs taken during total eclipses. W. H. Wesley.

On an old engraving of *Jupiter*. Capt. W. Noble.

Observations of Nova *Cygni*, of some of the planets, and of Comet Barnard, made at Mr. Wigglesworth's Observatory with the 15.5-in. Cooke equatoreal. J. G. Lohse.

Note on the performance of the Westminster clock. T. Buckney.

A comparison of the star places of the Argentine General Catalogue for 1875 with those of the Cape Catalogue for 1880, and with those of other Southern Star Catalogues. A. M. W. Downing.

On a corrector for adapting an ordinary object-glass to photography. W. H. M. Christie.

Nov. 11. Observations of the planet *Sappho* made at the Cambridge Observatory with the Northumberland equatoreal and square-bar micrometer. Communicated by Prof. J. C. Adams.

On the orbit of Comet II., 1883. Lieut.-Gen. J. F. Tennant.

Note on the latitude and longitude of the Maresfield Observatory. Capt. W. Noble.

Ephemerides of the satellites of *Saturn*, 1887-88. A. Marth.

Observations of comets and of *Sappho* (80) at Harrow. Lieut.-Col. G. L. Tupman.

Ephemeris of the satellites of *Neptune*, 1887-88. A. Marth.

On the orbit of *p Eridani*. J. E. Gore.

Occultation of *Regulus* by the Moon observed at the Dunsink Observatory. Communicated by Sir R. S. Ball.

Occultation of *Regulus*. Rev. S. J. Johnson.

Observations of comets made at the Orwell Park Observatory in the years 1886–87. J. I. Plummer.
On the appearances presented by the satellites of *Jupiter* during transit, with a photometric estimation of their relative albedos, and of the amount of light reflected from different portions of an unpolished sphere. E. J. Spitta.

On photographs of the nebulae 57 M *Lyrae*, 27 M *Vulpeculae*, the cluster 13 M *Herculis*, and of stars in *Cygnus*. I. Roberts.

The total solar eclipse of August 19, 1887. Rev. S. J. Perry.

Note on the probable errors of the star places of the Argentine General Catalogue for 1875, and the Cape Catalogue for 1880. A. M. W. Downing.

On the reduction of star places by Bohnenberger's method. Prof. T. H. Safford.

Ephemeris for physical observations of *Jupiter*, 1888. A. Marth.

The total solar eclipse of 1887, August 19. Dr. R. Copeland.

Further researches on stellar parallax by the photographic method. Prof. C. Pritchard.

Results obtained with the personal equation machine at the Royal Observatory, Greenwich. H. H. Turner.

Catalogue of the mean colours of 758 stars, and appendix, containing the colours of 26 southern stars. W. S. Franks.

Dec. 9. Description of the personal equation machine of the Royal Observatory, Greenwich. W. H. M. Christie.

On the double star Σ 1847. J. E. Gore.

Ephemeris for physical observations of *Mars*, 1888. A. Marth.

1888.

Jan. 13. The chief meteor showers. W. F. Denning
Heights of fireballs and shooting stars. W. F. Denning.
Nebula in *Andromeda*, and *Nova* 1885. T. W. Backhouse.

Notes on the solar surface of 1887. Rev. S. J. Perry.

Observations of the phenomena of *Jupiter's* satellites made at Windsor, New South Wales, in the year 1887. J. Tebbutt.

Ephemeris of the satellites of *Mars*, 1888. A. Marth.

On the cross reticule. Lieut.-Col. G. L. Tupman.

The opposition of *Sappho* in 1888. R. Bryant.

Observations of the Moon made at the Radcliffe Observatory, Oxford, during the year 1887, and a comparison of the results with the tabular places from Hansen's Lunar Tables. E. J. Stone.

Note on the definition of reflecting telescopes, and on the images of bright stars on photographic plates.

Lieut.-Gen. J. F. Tennant.

Spectroscopic results for the motions of stars in the line of sight obtained at the Royal Observatory, Greenwich, in the year 1878, No. XI. Communicated by the Astronomer Royal.

Observations of occultations of stars by the Moon and of phenomena of *Jupiter's* satellites made at the Royal Observatory, Greenwich, during the year 1887. Communicated by the Astronomer Royal.

Note on testing polished flat surfaces. A. A. Common.

Note on the total solar eclipse of 1889, January 1. J. R. Hind.